

PHENIX WEEKLY PLANNING



4/7/2011 Don Lynch





This Week:

No scheduled maintenance this week:

Brief access yesterday

Continuing mechanical, electrical and gas system support for Run 11

Plan for shutdown 2011

Future upgrades support



Next Week

Maybe a scheduled maintenance day next Wednesday, April 13th ?????

No tasks identified yet

Continue Prep for FoCal prototype installation (waiting for prototype)

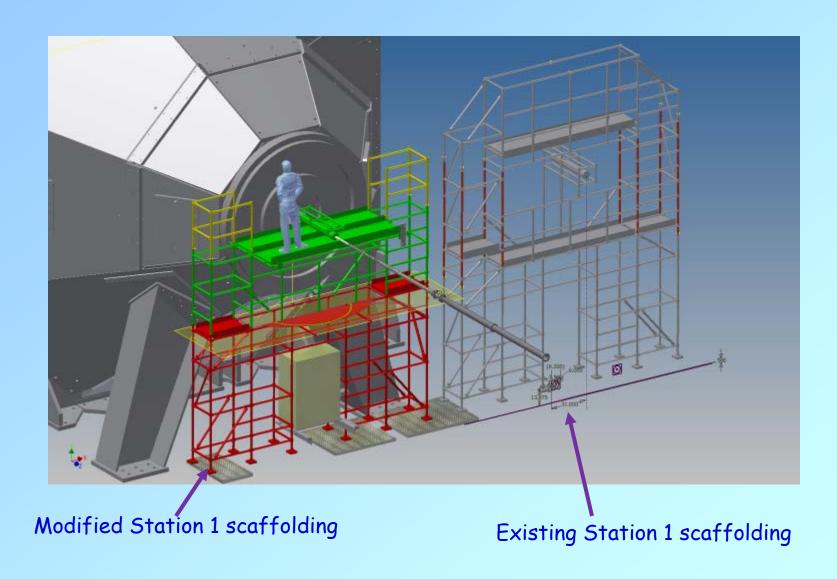
Continuing mechanical, electrical and gas system support for Run 11

Continue planning for shutdown 2011

Future upgrades support

PH*ENIX

MuTr & RPC1 Work platform/scaffold



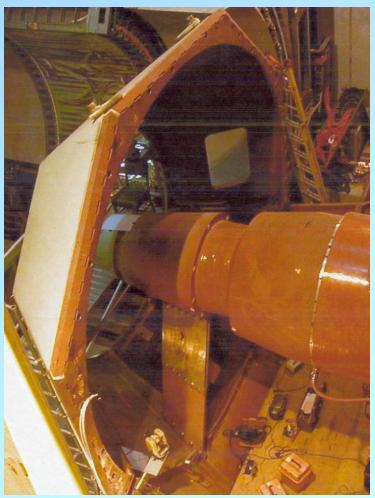




Improvements to cross bracing for Station 1 scaffolding







Station 2 access (MMS shown MMN is similar)



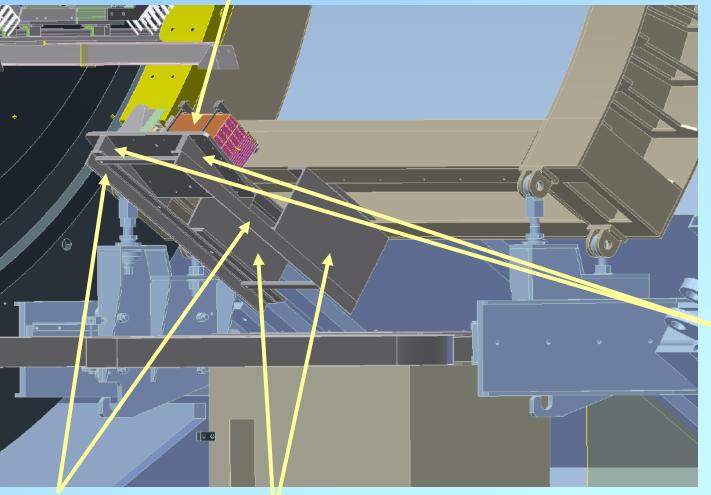


MuTr station 1 lifting fixture



FoCal prototype

Focal prototype support



Wedges to aim prototype

Angles to position prototype

4/7/2011

10" channels clamped to DC support structure



TECHNICAL SUPPORT 20

Planning For the 2011 Shutdown

•	Prep for shu	tdown	2/1-6/30/2011
	· · · · · · · · · · · · · · · · · · ·	efine tasks and goals	2,10,00,2011
		nalysis and design of fixtures, tools and procedures	
		abricate/procure tools and fixtures	
		ests, mockups, prototypes	
		eceive, fabricate, modify, finish installables	
		pigwheels, tubing, etc.)	
	•	eview and approval of parts, tools, fixtures and proceures	
	Run 11 Ends	ssembly and QA tests	6 /30 /3010
		and and Tagles	6/30/2010
•		andard Tasks	7/1-7/21/2010
		pen wall, disassemble wall, Remove MuID Collars,	
		ove EC to AH, etc.	
•		VTX services	7/11-7/22
•		and transport to Chemistry Lab	7/25/2011
•	BBC North m		7/22-7/29/2011
•	MuTr North	Station 1 work	7/25-9/30/2011
	· I	nstall access (scaffold) (1 week)	
	• D	isconnect Cables, hoses etc (1 week)	
	• R	emove FEE plates and chambers (1 week)	
		tation 2 Maintenance/upgrade through access opened by	
		station 1 removal (3 weeks concurrent with next task)	
	· C	lean/install new parts and upgrades (3 weeks, concurrent)	
		e-install chambers and FEE plates (1 week)	
		e-cable, re-hose and test (3 weeks)	





Planning For the 2011 Shutdown (cont'd)

•	VIX maintenance/upgrade and integration of FVIX onto VIX	
	support structure	7/25-9/25/2011
	• Disassemble/repair/upgrade/test/reassemble VTX (3 weeks)	
	• Resurvey as necessary (1 week)	
	• Install FVTX (3 weeks)	
	 VTX/FTX survey and QA tests (2 weeks) 	
•	RPC1 and Absorber upgrades	7/25-10/28/2011
	• Install north absorbers (1 week)	

	The fair field fit about being (1 week)	
•	Install north RPC1 (3 weeks)	
•	Install south absorbers (1 week)	
•	Install south RPC1 (3 weeks)	

•	Install VTX&FVTX (2 weeks)	9/26-10/7/2011
•	Undefined detector subsystem maintenance and repairs	7/25-10/7/2011
•	Prep for EC roll in	10/3-10/7/2011
•	Roll in EC	10/10/2011
•	Prep IR for run	10/10-10/17/2010
•	VTX, FVTX and RPC1 Services and commissioning	9/16-10/31/201
•	Pink/Blue/White sheets	10/17-10/31/201
	Dom 12 and Jane	11 /1 /2011

• Run 12 cooldown 11/1/2011



Tools/Fixtures Needed for Shutdown 2011

- FVTX/VTX modified assembly fixture in progress
- FVTX inspection tool(s) not yet specified
- Modified FVTX/VTX installation/transport fixture(s) not yet specified
- RPC absorber assembly tool(s) need absorber design first
- RPC absorber installation tool(s) need absorber design first
- Station 1 North scaffolding in progress
- RPC1 assembly fixture(s) need RPC1 design first
- RPC1 transport/installation fixture(s) need RPC1 design first
- MuTr vacuum lifter dummy load (for load test) in progress
- MuTr additional lifting fixture(s) (FEM plate) in progress
- Mu Trigger Stations 2/3 North&South access scaffolding not yet specified
- Mu Trigger Stations 2/3 North&South Assembly/positioning/holding tool(s)
 not yet specified

- Improved/upgraded VTX part(s) not yet specified
- VTX assembly(s) not yet specified
- FVTX support structure in progress
- FVTX big wheels parts to be fabricated by FVTX group, Brazing to be procured locally
- FVTX Big wheel mounts parts to be fabricated by FVTX group
- VTX/FVTX arc cable trays and mounts in design queue
- RPC PE&Pb/Li absorber Components (N & S) need absorber design first
- RPC PE&Pb/Li absorber assemblies (N & S) need absorber design first
- RPC PE&Pb/Li absorber mounting structure (N & S) need absorber design first
- RPC1 components (N & S) need RPC1 design first
- RPC1N assembly(s) need RPC1 design first
- RPC1N mounting structure need RPC1 design first
- BBCN wire management modification in design queue
- RPC15 assembly(s) need RPC1 design first
- RPC15 mounting structure need RPC1 design first
- BBCS wire management modification in design queue
- MuTr Repair/Upgrade Parts (including scaffolding) parts to be supplied by MuTr group except scaffolding which is in progress

12

- MuTr Repair/Upgrade Assemblies to be supplied by MuTr group
- MuTrigger Repair/Upgrade Parts (including scaffolding) parts to be supplied by MuTrigger group except scaffolding which is in design queue
- Parts for Other Shutdown Work
 - Misc. Subsystem Part(s) not yet specified
 - Gas Mixing House Maintenance and upgrade parts not yet specified
 - PHENIX Infrastructure Maintenance and improvement parts not yet specified
 - Gas Pad maintence/repair/upgrade parts not yet specified
 - PC1/DC repairs and improvements parts not yet specified
 - IR Bridge electrical service upgrade parts not yet specified
 - FoCal Support parts not yet specified
 - RPC Factory Support parts not yet specified
 - Rack room upgrades parts not yet specified
 - CM Crane parts project is on hold indefinitely
 - CM Alignment Stop parts in design queue
 - Gas system maintenance/repair/upgrade parts not yet specified
 - Future upgrade support parts not yet specified



TECHNICAL NUPPORT

Procedures for Shutdown 2011

- Existing PHENIX General Purpose Recurring Task procedures
- VTX Removal
- FVTX/VTX installation
- VTX Survey
- FVTX Survey
- FVTX Cooling System
- RPC borated PE/Pb or Li Absorber
- RPC1 Installation/QA testing/Survey
- MuTr Maintenance & Upgrade
- MuTrigger Maintenance and Upgrade

Work Permits for Shutdown 2011

- Start of Shutdown
- VTX Removal
- FVTX/VTX Installation
- MuTr Maintenance and Upgrade
- RPC Absorber Upgrade
- RPC1 Installation
- MuTrigger Maintenance and Upgrade
- End of Shutdown



AH and IR Crane Corrective Actions





IR Crane 1 ton replacement parts received. Paul and Mike R. planning for upgrade work.

AH Crane (both hooks) out of commission until repaired. CAD engineering evaluating options:

- A. Recertify as is (incl. Vendor approval unlikely) NO
- B. Remove speed reduction and use as originally equipped unsafe?? 1 year?
- C. Add bracketry to recertify as is Feasibility under review NO
- D. New Drive cost and lead time Preferred, but can't be installed for this year
- E. Use portable crane extremely inefficient Last resort only

We need this crane ASAP. Shutdown schedule is unacceptably impacted with anything less than a fully functional crane operated by PHENIX techs.



TECHNICAL NUPPORT 20

West Carriage liftable platforms ("window washer" platforms) Needs new cable, improved lockout method is desireable









TECHNICAL SUPPORT 20

2010 Building Maintenance Issues

Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall, over door between control room and elect. ass'y room, southeast corner of IR and laser room.



Flooding in AH/ Privewa





PHENIX Procedure Review Current Status:

147 Procedures Identified



Web retrieval of latest procedures now available from PHENIX Internal:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_procedures.htm

- 1. RPC Factory annual safety review
 - a) All procedures reviewed and found to be up to date requiring no revisions
 - b) Annual RPC Factory safety system blue sheet testing, Done
 - a) Safety walkthru needed, schedule TBD, after blue sheets Today, after this meeting
- 2. FoCal Prototype safety review
 - a) Documents prepared and submitted for review Done
 - b) Installation procedure and work permit in progress Waiting for prototype
 - c) Assembly of prototype and design of installation/support structure in progress wire bonding in progress? (Fabrication Done)
 - d) Expect to install during a maintenance access period sometime in April?

- 3. No BNL injuries reported between 3/7 and 3/30. (another week with no incidents: DART, Recordable or First Aid)
- 4. CPR Training: April 29th 26th

Carter, Rob, Frank, Chris, Kenny, Mike L., Chris P. and me. Anyone else wanting to get in on this training, please let me know and I'll see if we can get another slot.

5. Safety Pic of the Week.





Where To Find PHENIX Engineering Info

Happy World Health Day!

This year's theme:
Anti-microbial resistance

This year's slogan:
No action today, no cure tomorrow

MagLev Contest video links:

http://www.mylitv.com/view_video.php?viewkey=7f6788918f03c42b123c

http://www.mylitv.com/view_video.php?viewkey=950fef2bd2aafa0b971a

Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm



4/7/2011